The Journal of Emergency Medicine

CONTENTS, AUTHOR, AND KEYWORD INDEX

VOLUME 6, 1988

Pergamon Press

New York • Oxford • Beijing • Frankfurt
São Paulo • Sydney • Tokyo • Toronto

The Journal of Emergency Medicine

☐ **EDITOR-IN-CHIEF** Peter Rosen, MD, *Denver General Hospital, Denver, CO*

☐ **ASSOCIATE EDITORS** Richard Levy, MD, *Univ of Cincinnati Medical Center, Cincinnati, OH*
George Sternbach, MD, *Stanford University, Stanford, CA*

☐ **ASSISTANT EDITOR** Diana Doyle, *Denver General Hospital, Denver, CO*

☐ SECTION EDITORS

Original Contributions
John A. Marx, MD
Denver, CO

Clinical Communications/Pediatrics
Roger Barkin, MD
Denver, CO

Clinical Communications/Adult
Ron Walls, MD
Vancouver, BC, Canada

Clinical Communications/OB/GYN
Gail V. Anderson, Jr. MD
Atlanta, GA

Selected Topics:

Toxicology
Kenneth Kulig, MD
Denver, CO

Prehospital Care
Peter T. Pons, MD
Denver, CO

ECG Commentary
Steven Lowenstein, MD
Denver, CO

Selected Topics:

Radiology
Jack Keene, MD
Poughkeepsie, NY

Controversies in Trauma Management
William H. Campbell, MD
Jacksonville, FL

Computers in the Emergency Department
Stephen V. Cantrill, MD
Denver, CO

Techniques and Procedures
George Sternbach, MD
Stanford, CA

Emergency Medicine in Review
Ann Harwood-Nuss, MD
Jacksonville, FL

Emergency Case Records
Michael Brunko, MD
Denver, CO

Medical Classics
George Sternbach, MD
Stanford, CA

Emergency Forum
G. Richard Braen
Boston, MA

Administration of Emergency Medicine
Eugene Kercher, MD
Bakersfield, CA

Ethics
Jacek Franaszek, MD
Naperville, IL

Emergency Medicine and the Law
Raymond Fish, MD
Urbana, IL

Education
Mary Ann Cooper, MD
Chicago, IL

New Technologies
Alexander Trott, MD
Cincinnati, OH

Humanities and Medicine
Richard M. Ratzan, MD

Book Reviews
Edward J. Otten, MD
Cincinnati, OH

Abstracts
Robert Wears, MD
Jacksonville, FL

Special Consultant
Ernest E. Moore, MD
Denver, CO

☐ EDITORIAL BOARD

Tim Allen, MD
Quebec, Canada
Robert Banka, MD
San Diego, CA
Howard Bessen, MD
Torrance, CA
Joseph Clinton, MD
Minneapolis, MN
Robert Dailey, MD
Oakland, CA
Daniel Danzl, MD
Louisville, KY
Jan de Boer, MD, PhD
Warnsveld, The Netherlands
Peter Doris, MD
Chicago, Heights, IL
Peter Fass, MD
Valhalla, NY
Richard Feldman, MD
Chicago, IL
John Gallagher, MD
Bronx, NY
Suchinta Hakim, MD
Chicago, IL
Jerris Hedges, MD
Cincinnati, OH
Kenneth Iserson, MD
Tucson, AZ
Robert C. Jorden, MD
Jackson, MS
Gene Kallsen, MD
Fresno, CA
Alois F. Karlbauer, MD
Salzburg, Austria
Martin S. Kohn, MD
Far Rockaway, NY
Robert Margulies, MD
Merritt, NC
Vincent Markovchick, MD
Denver, CO
James Mathews, MD
Chicago, IL
Doug Mayeda, MD
Monument, CO
John W. McGill, MD
Denver, CO
Kendall McNabney, MD
Kansas City, MO
John Moorhead, MD
Portland, OR
Jack Peacock, MD
El Paso, TX
Thomas Purcell, MD
Bakersfield, CA
Bruce T. Rowat, MD
Toronto, Ontario, Canada
Ernie Ruiz, MD
Minneapolis, MN
Arthur Sanders, MD
Tucson, AZ
Daniel T. Schelble, MD
Akron, OH
John Schriver, MD
Portland, OR
Jeffrey Schwartz, MD, Capt, MC
Greenley, CO
Steven Silverstein, MD
Newton Lower Falls, MA
Robert D. Slay, MD, Col, MC
San Antonio, TX
William H. Spivey, MD
Philadelphia, PA
Michael Tomlanovich, MD
Detroit, MI
Gerry Whelan, MD
Los Angeles, CA
Daniel D. Whitcraft, III, MD
Long Beach, CA

Editorial Office: Peter Rosen, MD, Editor-in-Chief: *The Journal of Emergency Medicine*, Denver General Hospital, 777 Bannock Street, Denver, CO 80204-4507, USA.

Publishing, Subscription, and Advertising Offices: Pergamon Press, Inc, Fairview Park, Elmsford, New York 10523, USA; and Pergamon Press plc, Headington Hill Hall, Oxford OX3 0BW, England.

Published Bimonthly. Annual institutional subscription rate (1989): US $135.00; Two-year institutional subscription rate (1989/90): US $256.50; Professional subscription rate (1988): US $45.00; Student/Resident/Intern Rate: US $35.00. Prices are subject to change without notice. Notify 8 weeks in advance of address change with a copy of the subscription mailing label. **Microform subscriptions:** Back issues of all previously published volumes are available directly from Pergamon Press. Back issues of Pergamon journals in microform can be obtained from UMI, 300 North Zeeb Road, Ann Arbor, MI 48106, USA.

Copyright © 1988 Pergamon Press plc

Printed in the USA.

Copyright Notice: It is a condition of publication that manuscripts submitted to this journal have not been published and will not be simultaneously submitted or published elsewhere. By submitting a manuscript, the authors agree that the copyright for their article is transferred to the publisher if and when the article is accepted for publication. The copyright covers the exclusive rights to reproduce and distribute the article, including reprints, photographic reproductions, microform, or any other reproductions of similar nature, and translations. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, electrostatic, magnetic tape, mechanical, photocopying, recording, or otherwise, without permission in writing from the copyright holder. "Emergency Medicine" has been registered as a trademark by another party and is used by agreement with such other party, the details of which are available by writing to Pergamon Press, Inc, Fairview Park, Elmsford, NY 10523.

Photocopying information for users in the U.S.A.: The Item-Fee Code for this publication indicates that authorization to photocopy items for internal or personal use is granted by the copyright holder for libraries or other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service provided the stated fee for copying, beyond that permitted by Section 107 or 108 of the United States Copyright Law, is paid. The appropriate remittance of $3.00 per copy per article is paid directly to the Copyright Clearance Center Inc, 27 Congress Street, Salem, MA 01970.

Permission for other use: The copyright owner's consent does not extend to copying for general distribution, for promotion, for creating new works, or for resale. Specific written permission must be obtained from the publisher for such copying. Please contact the Subsidiary Rights Manager at either Pergamon Press, Inc. or Pergamon Press plc.

The Item-Fee Code for this publication is: 0736-4679/88 $3.00 + .00.

Volume 6 Index

Contents
Volume 6, 1988

Volume 6, Number 1 1988

CONTENTS

Original Contributions

Leon Ampel, Kimberly A. Hott, Gerald W. Sielaff, Todd B. Sloan — 1 — An Approach to Airway Management in the Acutely Head-Injured Patient

Margaret C. Hochreiter, Leslie L. Barton — 9 — Epidemiology of Needlestick Injury in Emergency Medical Service Personnel

Clinical Communications

Gobind S. Singh, Corey M. Slovis — 13 — "Occult" Boerhaave's Syndrome

Douglas A. Propp, David Cline, Bradley R. Hennenfent — 17 — Catheter Embolism

Joseph C. Dell'Aria, Robert Petrilli, Earl Schwartz — 23 — Acute Occlusion of the Left Renal Artery Manifested by Hypertensive Crisis

Steven M. Sornsin, John A. Marx — 29 — Rupture of a Pancreatic Pseudocyst Following Blunt Abdominal Trauma

Mark W. Kline, E. O'Brian Smith, Sheldon L. Kaplan, Martin I. Lorin — 33 — Effects of Causative Organism and Presence or Absence of Meningitis on White Blood Cell Counts in Children with Bacteremia

Selected Topics: Toxicology

Robert D. Mathis, James S. Walker, David W. Kuhns — 37 — Subacute Acetaminophen Overdose After Incremental Dosing

Selected Topics: Prehospital Care

Ronald B. Low, Dennis Martin, Cadijah Brown — 41 — Emergency Air Transport of Pregnant Patients: The National Experience

Daniel J. O'Brien, Daniel F. Danzl, M. Barbara Sowers, Edmond A. Hooker 49 Airway Management of Aeromedically Transported Trauma Patients

Selected Topics: ECG Commentary

Jonathan S. Olshaker 55 Atrial Flutter

Emergency Medicine in Review

Allan B. Wolfson, Irwin Singer 61 Hemodialysis-Related Emergencies – Part II

Medical Classics

George Sternbach 71 Sydney Ringer: Water Supplied by the New River Water Company

75 **Letters to the Editor**

Editorial

Peter Rosen, Beverly Timerding, Peter Pons 77 Field Safety or an Infinite Loop

79 **Abstracts**

Book Reviews

Alexander Trott 85 *Infection Control of Procedures for Prehospital Care Providers* by Lynn Zimmerman, Mary Neuman, and Paul Farr

Paul B. Baker 85 *Practical Management of Eye, Ear, Nose and Throat Emergencies* edited by Thomas O. Stair

85 *Emergencies in Otolaryngology* edited by James Y. Suen and Stephen J. Wetmore

Anthony T. Kramer 86 *Defibrillation: A Manual for the EMT* by Linda Bunting-Blake

86 *EMT-D Prehospital Defibrillation* by Kenneth Stults

89 **Erratum**

91 **Calendar of Events**

95 **Classifieds**

97 **Instructions for Contributors**

Volume 6, Number 2 1988

CONTENTS

Original Contributions

Robert S. Hockberger, Robert J. Rothstein 99 Assessment of Suicide Potential by Nonpsychiatrists Using the SAD PERSONS Score

Douglas Sinclair **Michael Schwartz** **Joseph Gruss** **Barry McLellan**	109	A Retrospective Review of the Relationship Between Facial Fractures, Head Injuries, and Cervical Spine Injuries
		Clinical Communications
Howard Rodenberg	113	Severe Frontal Sinus Barotrauma in an Airline Passenger: A Case Report and Review
		Selected Topics: Toxicology
Daniel A. Spyker **Anil Minocha**	117	Toxicodynamic Approach to Management of the Poisoned Patient
Glenn F. Tokarski **Mark J. Young**	121	Criteria for Admitting Patients with Tricyclic Antidepressant Overdose
Daniel J. Dire **David W. Kuhns**	125	The Use of Sublingual Nifedipine in a Patient with a Clonidine Overdose
		Selected Topics: ECG Commentary
William A. Berk	129	Electrocardiographic Findings in Infective Endocarditis
		Techniques and Procedures
Robert H. Dailey	133	External Jugular Vein Cannulation and Its Use for CVP Monitoring
Robert H. Dailey	137	Late Vascular Perforations by CVP Catheter Tips
		Editorial
Roger Barkin **Peter Pons** **Peter Rosen**	141	Participating in the System: Insurance Screening Cannot Be Tolerated
	143	**Letters to the Editor**
		Administration of Emergency Medicine
John La Puma **Marytherese Balskus**	147	When an Indigent Patient Needs a Helicopter: A Case Report and an Accepted Institutional Policy
		Emergency Medicine in Review
Douglas A. Propp	151	Blood Component Therapy
	161	**Abstracts**
		Book Reviews
Edward J. Otten	167	*A Practical Approach to Emergency Medicine* by R. J. Stine and R. H. Marcus, editors
J. Stephen Huff	167	*Essentials of Emergency Medicine, 2nd edition* by Douglas A. Rund
	169	**Erratum**
	171	**Calendar of Events**

173 **Classifieds**

175 **Instructions for Contributors**

Volume 6, Number 3 1988

CONTENTS

Clinical Communications

Richard M. Goldberg, Lillian Rowan, Richard E. Anderson 177 Thoracic Vertebral Fracture as a Complication of Cardiopulmonary Resuscitation

William F. Eckhardt, Michael Doyle, Alan Woodward, Irwin Freundlich, Francis X. Rockett 179 Cervical Spine Fracture Following a Motor Vehicle Accident

David Dana de Haas, Ellen H. Taliaferro, Navin M. Amin 185 Intravenous Procainamide for the Conversion of New Onset Atrial Fibrillation in the Emergency Department Setting

David Applebaum 189 Terminating SVT-Mediated Recurrent Ventricular Fibrillation with Verapamil

Selected Topics: Toxicology

Ron McMillan 193 Management of Acute Severe Verapamil Intoxication

Selected Topics: Radiology

Richard E. Buenger 197 Five Thousand Acute Care/Emergency Department Chest Radiographs: Comparison of Requisitions with Radiographic Findings

Gary L. Neifeld, John G. Keene, George Hevesy, Jerrold Leikin, Arthur Proust, Ronald A. Thisted 203 Cervical Injury in Head Trauma

Techniques and Procedures

Kenneth J. Rhee, Robert W. Derlet, Dennis L. Fung 209 Evaluating Anatomical Factors Affecting Endotracheal Intubation

Emergency Medicine in Review

Sherry J. Galloway, Ann L. Harwood-Nuss 213 Sickle-Cell Anemia – A Review

John P. Rioux, Roy A. M. Myers 227 Methylene Chloride Poisoning: A Paradigmatic Review

Emergency Case Records

Michael W. Brunko, D. Michael Hunt 239 Sudden Death in a Young Adult Woman

Editorial

James Mathews 245 Potential Impact of Extended Treatment Protocols

247 **Letters to the Editor**

Administration of Emergency Medicine

Jeffrey Jones, William Clark, Jack Bradford, James Dougherty 249 Efficacy of a Telephone Follow-up System in the Emergency Department

255 **Abstracts**

Book Reviews

Brian J. Zink 261 *Dermatology in Ambulatory and Emergency Medicine: A Clinical Guide with Alogorithms* edited by F. P. Flowers and P. A. Krusinski

261 *Dermatology in Primary Care* edited by S. I. Lamberg

263 **Calendar of Events**

265 **Classifieds**

267 **Instructions for Contributors**

Volume 6, Number 4 1988

CONTENTS

Original Contributions

Alex Krivchenia, Mary Ann Knauf, Kenneth V. Iserson 269 Flow Characteristics of Admixed Erythrocytes Through Medex Tubing With a Pall Filter

Clinical Communications: Pediatrics

David W. Munter, Joseph A. Wilkinson 273 Isotretinoin Ingestion in a Pediatric Patient

Clinical Communications: Adult

Marcus E. Carr, Jr, Allen I. Wolfert 277 Rewarming by Hemodialysis for Hypothermia: Failure of Heparin to Prevent DIC

Greg D. Mears
Ralph B. Leonard 281 Blunt Carotid Artery Trauma: A Case Report

Shi-Mou Chen
Paul C. Howes 285 Purulent Osteomyelitis Associated With Empyema and Toxic Shock Syndrome

Selected Topics: Toxicology

Kathryn R. Challoner
Margaret M. McCarron 289 Ammonium Nitrate Cold Pack Ingestion

Michael C. Haupt
David N. Zull
Stephen L. Adams 295 Massive Ethylene Glycol Poisoning Without Evidence of Crystalluria: A Case for Early Intervention

Selected Topics: ECG Commentary

Ralph J. Panos
Robert A. Barish
DePriest W. Whye, Jr
Georgina Groleau 301 The Electrocardiographic Manifestations of Pulmonary Embolism

Techniques and Procedures

Sharon E. Mace 309 Cricothyrotomy

Current Practice in Emergency Medicine

Gary P. Young 321 Reservations and Recommendations Regarding Sodium Bicarbonate Administration in Cardiac Arrest

Emergency Medicine in Review

Russell E. Galloway 325 Mammalian Bites

Emergency Forum

William E. Daley
Jennifer Leaning
G. Richard Braen 333 Prehospital Emergency Services and Health Maintenance Organization: An HMO Perspective

Stewart L. Greisman 339 The Perpetual Enigma

341 **Letters to the Editor**

Editorial

Peter Rosen
Peter Pons
Michael Brunko
Norman Dinerman 345 Prehospital Care and the HMO

347 **Abstracts**

Book Reviews

James R. Roberts 353 *Handbook of Toxicology* by Thomas J. Haley and William O. Berndt

Suman Wason 353 *Manual of Pediatric Emergencies* edited by Joseph R. Zanga

355 **Calendar of Events**

357 **Classifieds**

359 **Instructions for Contributors**

Volume 6, Number 5 1988

CONTENTS

361 **In Memoriam**

Original Contributions

Dan L. Field, Jerris R. Hedges, Kenneth J. Arnold, Beth Goldstein-Wayne, Gregory W. Rouan 363 Limitations of Chest Pain Follow-up From an Urban Teaching Hospital Emergency Department

369 Abstracts of Papers Presented at Illinois ACEP Conference

Clinical Communications: Adult

Raymond H. Purdy, Thomas H. Cogbill, Jeffrey Landercasper, Dennis K. Ryan 373 Temporary Blindness Associated With Traumatic Asphyxia

Mark J. Lemos, David E. Clark 377 Scalp Lacerations Resulting in Hemorrhagic Shock: Case Reports and Recommended Management

Franklin Genelin, Alois F. Karlbauer, Franz Gasperschitz 381 Greenstick Fracture of the Forearm With Median Nerve Entrapment

Timothy C. Evans, Janene Hecker, Deborra K. Zaiser 387 Hemotympanums Secondary to Spontaneous Epistaxis

Peter Siao, Pratap Yagnik 391 Spinal Epidural Abscess

Selected Topics: Toxicology

C. David Hugelmeyer, John C. Moorhead, Lindsey Horenblas, Marc J. Bayer 397 Fatal Lead Encephalopathy Following Foreign Body Ingestion: Case Report

R. Paul Johnson, John W. Mellors 401 Arteriolization of Venous Blood Gases: A Clue to the Diagnosis of Cyanide Poisoning

Selected Topics: ECG Commentary

Francis M. Fesmire, Terry L. MacMath 405 The ECG in Acute Myocardial Infarction

Emergency Case Records

Michael W. Brunko, Richard Wolfe 411 An Unusual Cause of an Acute Surgical Abdomen

Medical Classics

George Sternbach 417 Claude Beck: Cardiac Compression Triads

Editorials

Peter Rosen 421 The Emergency Patient Follow-up: Is Noncompliance Changeable or Immutable?

Mark S. Smith, Ron M. Walls 423 Acute Myocardial Infarction: The Clock is Ticking . . .

Peter Rosen, Ann Harwood-Nuss 425 The Academics of Emergency Medicine

James M. Cusick 427 Comentario

Peter Rosen 429 Dumping or Work Aversion?

433 **Letters to the Editor**

Education

Arthur B. Sanders, Daniel W. Spaite, Roger Smith, Elizabeth Criss 435 Allocation of Time in Three Academic Specialties

Louis Binder, Brian Nelson, David Smith, Bert Glass, John Haynes, Michael Wainscott 439 Development, Implementation, and Evaluation of a Medical Spanish Curriculum for an Emergency Medicine Residency Program

Emergency Forum

Charles W. Zumpft 443 The Correction of Interhospital "Dumping" by Legislation

Max Lebow, Wm. MacMillan Rodney 447 Patient Transfers to a Public Hospital

Humanities and Medicine

Richard M. Ratzan 451 A Near Miss

455 **Abstracts**

Book Reviews

Jerris R. Hedges 461 *Renal and Urologic Emergencies: Clinics in Emergency Medicine* edited by A. B. Wolfson and A. Harwood-Nuss

Gail Barker 462 *Emergency Psychiatry* by D. A. Rund and J. C. Hutzler

462 *Handbook of Emergency Psychiatry for Clinical Administrators* by G. Barton and R. Friedman

463 *The Psychiatric Emergency: Its Recognition and Management* edited by E. S. O'Neill

465 **Calendar of Events**

467 **Classifieds**

469 **Instructions for Contributors**

Volume 6, Number 6 1988

CONTENTS

Original Contributions

David L. Blinn, Harvey Slater, I. William Goldfarb 471 Inhalation Injury With Burns: A Lethal Combination

Michael A. Towler, Walter McGregor, George T. Rodeheaver, Pamela V. Cutler, Robert F. Bond, David Phung, Raymond G. Morgan, John G. Thacker, Richard F. Edlich 475 Influence of Cutting Edge Configuration on Surgical Needle Penetration Forces

David DuBois, Louis Binder, Brian Nelson 483 Usefulness of the Stool Wright's Stain in the Emergency Department

Clinical Communications

Leon Satran, Arndt J. Duvall, III 487 Pharyngeal Tear Resulting From Skiing Injury

Selected Topics: Toxicology

Edmond A. Hooker, Daniel F. Danzl 491 Acute Dystonic Reaction Due to Diazepam

Sharon A. Vandenberg **Kenneth Kulig** **David G. Spoerke** **Alan H. Hall** **Valerie J. Bailie** **Barry H. Rumack**	495	Chlorambucil Overdose: Accidental Ingestion of an Antineoplastic Drug
		Selected Topics: Prehospital Care
Gary Carter **Robert Couch** **Daniel J. O'Brien**	499	The Evolution of Air Transport Systems: A Pictorial Review
James E. Pointer	505	Clinical Characteristics of Paramedics' Performance of Endotracheal Intubation
		Selected Topics: ECG Commentary
Barry C. Simon	511	Pseudomyocardial Infarction and Hyperkalemia: A Case Report and Subject Review
		Selected Topics: Emergency Medicine Abroad
Dan Schlager **Kenneth V. Iserson**	517	Emergency Burn Treatment in Denmark
		Current Practice in Emergency Medicine
Laurie J. Morrison	521	The Battering Syndrome: A Poor Record of Detection in the Emergency Department
		Emergency Medicine in Review
Donna Seger	527	Toxic Emergencies of Endocrine and Metabolic Therapeutic Agents
		Humanities and Medicine
Richard M. Ratzan	539	One of Our Own
		Emergency Forum
Ira Landsman	541	Pediatric Emergency Medicine
		Editorials
Peter Rosen	543	The Kind of Cut
Roger M. Barkin	545	An Evolving New Expertise: Pediatric Emergency Medicine
	547	Letters to the Editor
		Education
Glenn C. Hamilton	551	A Library to Assist in the Development of Academic Faculty in Emergency Medicine
	555	Abstracts

Book Reviews

Kevin S. Merigian 563 Handbook of Poisoning: Prevention, Diagnosis and Treatment by R. H. Dreisbach and W. O. Robertson

Seth W. Wright 563 ENT Emergencies – Emergency Medicine Clinics of North America edited by T. Stair

Jerris R. Hedges 564 Pain Management in Emergency Medicine by P. Paris and R. Stewart

565 Erratum

567 Calendar of Events

569 Classifieds

571 List of Reviewers

573 Volume 6 Index

595 Instructions for Contributors

Author Index
Volume 6, 1988

Adams, SL, 295
Ambrosino, DM, 165, 166
Amin, NM, 185
Ampel, L, 1, 548
Anderson, AB, 165, 166
Anderson, RE, 177
Applebaum, D, 189
Arnold, KJ, 363

Bailie, VJ, 495
Baker, JL, 165
Baker, PB, 86
Balskus, M, 147
Barish, RA, 301
Barker, G, 462, 463
Barkin, R, 141, 545
Barkin, RM, 545
Barrows, GH, 163
Barton, G, 462
Barton, LL, 9
Bayer, MJ, 397
Berk, WA, 129
Bernard, SA, 164
Berndt, WO, 353
Binder, L, 439, 483
Blinn, DL, 471
Bliss, CM, 164
Bond, RF, 475
Boston, DA, 369
Bradford, J, 249
Braen, GR, 333
Brennan, DF, 166
Brown, C, 41
Brunko, MW, 239, 345, 411
Buenger, RE, 197
Bunting-Blake, L, 86

Campbell, WH, 75
Carlson, PL, 162
Carr, ME Jr, 277
Carter, G, 499
Challoner, KR, 289
Chen, EH, 370
Chen, S-M, 285
Chou, AF, 164, 165
Clark, DE, 377
Clark, W, 249
Cline, D, 17
Cogbill, TH, 373
Cohen, S, 163
Conolly, H, 371
Couch, R, 499
Criss, E, 162, 435
Crosby, J, 143
Cusick, JM, 427
Cutler, PV, 475

Dailey, RH, 133, 137
Daley, WE, 333
Danzl, DF, 49, 491
de Haas, DD, 185
Dell'Aria, JC, 23
Derlet, RW, 209
Dinerman, N, 345
Dinsdale, HB, 162
Dire, DJ, 125, 565
Dolan, MC, 163
Donovan, PJ, 75
Dougherty, J, 249
Doyle, M, 179
Dreisbach, RH, 563
Dronene, SC, 164
DuBois, D, 483
Dunn, JD
Duvall, AJ III, 487

Eckenrode, PJ, 369
Eckhardt, WF, 179
Edlich, RF, 475
Eisner, RF, 371
Ellis, GL, 247

Falk, RH, 164
Farr, P, 147
Fesmire, FM, 405
Field, DL, 363
Flowers, FP, 261
Ford, D, 370
Frass, M, 162
Frenzer, R, 162
Freundlich, I, 179
Friedman, R, 462
Fung, DL, 209

Gabor, DK, 165
Galloway, RE, 325
Galloway, SJ, 213
Gasperschitz, F, 381
Genelin, F, 381
Glass, B, 439
Goldberg, RM, 177
Goldfarb, W, 471
Goldstein-Wayne, B, 363
Green, BA, 165
Greisman, SL, 339
Groleau, G, 301
Gruss, J, 109
Gyarmathy, R, 163

Haley, TJ, 353
Hall, AH, 495
Haltom, TI, 163
Hamilton, GC, 551
Hargarten, SW, 248
Harper, H, 163
Hart, R, 370
Harwood-Nuss, AL, 213, 425
Haupt, MC, 295
Haynes, J, 439
Hecker, J, 387
Hedges, JR, 164, 363, 461, 564
Hennenfent, BR, 17
Hevesy, G, 203
Hochreiter, MC, 9
Hooker, EA, 49, 491
Horenblas, L, 397
Hott, KA, 1
Howes, DS, 371
Howes, PC, 285
Hryhorczuk, DO, 369
Huff, JS, 167
Hugelmeyer, CD, 397
Hunt, DM, 239
Hutzler, JC, 462

Innes, GM, 162
Iserson, KV, 162, 269, 517
Israel, RS, 164, 165

Jaffe, AM, 89
Jaffin, BW, 164
Johnson, RP, 401
Jones, J, 249

Kaplan, SL, 33
Kareta, S, 89
Karlbauer, AF, 381
Keene, JG, 203
Kline, MW, 33
Knauf, MA, 269
Knowlton, AA, 164
Konczyk, LJ, 369
Kosgrove, E, 343
Kramer, AT, 87
Krivchenia, A, 269
Krusinski, PA, 261
Kuhns, DW, 37, 125, 565
Kulig, K, 495

La Puma, J, 147
Lamberg, SI, 261
Lamont, JT, 164
Landercasper, J, 373
Landsman, Ira, 541
Langdorf, MI, 369
Leaning, J, 333
Lebow, M, 447
Lee, TH, 163
Leikin, JB, 203, 369
Lemos, MJ, 377
Leonard, RB, 281
Linkenhelmer, R, 433
Lorin, MI, 33
Low, RB, 41
Lowenstein, SR, 169

MacMath, TL, 405
Mace, SE, 309
Maltz, B, 163
Marcus, RH, 167
Martin, D, 41
Marx, JA, 29, 342
Mathews, J, 245
Mathis, RD, 37
McCarron, MM, 289
McDermott, M, 370
McEvan, JI, 162
McGregor, W, 475
McGuire, RA, 165
McKay, C, 164
McLellan, B, 109
McMillan, R, 193
Mears, GD, 281
Melick, C, 165
Mellors, JW, 401
Merigian, KS, 164, 563
Merlotti, G, 165
Minocha, A, 117
Mofenson, HC, 143
Moore, CM, 162
Moore, EE, 75
Moorhead, JC, 397
Morgan, RG, 475
Morris, RW, 369
Morrison, LJ, 521
Munter, DW, 273
Myers, RAM, 227

Neal, JM, 547, 548
Neifeld, GL, 203
Nelson, B, 439, 483
Neuman, M, 85
Neville, S, 165
Nichols, CG, 164
Nightengale, SD, 79

O'Brien, DJ, 49, 499
O'Connor, HM, 162
O'Neill, ES, 463
Olshaker, JS, 55
Otten, EJ, 167, 342

Panos, RJ, 301
Paris, P, 564
Peake, D, 163
Petrilli, R, 23
Phung, D, 475
Pointer, JE, 505
Pons, P, 75, 77, 141, 345
Propp, DA, 17, 151, 434
Proust, A, 203
Purdy, RH, 373

Ratzan, RM, 451, 539
Rhee, KJ, 209
Rioux, JP, 227
Rives, T, 162
Roberts, JR, 353
Robertson, WO, 563
Robin, A, 165
Rockett, FX, 179
Rodeheaver, GT, 475
Rodenberg, H, 113, 341
Rodney, WM, 447
Rosen, P, 75, 77, 141, 345, 421, 425, 429, 543, 545
Rothstein, RJ, 99
Rouan, GW, 163, 363
Rowan, L, 177
Rumack, BH, 495
Rund, DA, 167, 462
Rupp, SM, 548
Ryan, DK, 373

Sacchetti, A, 433
Samelson, S, 165
Sanders, AB, 435
Sato, R, 166
Satran, L, 487
Schiller, WR, 164
Schillinger, D, 549
Schlager, D, 517
Schwartz, E, 23
Schwartz, M, 109
Seger, D, 527
Siao, P, 391
Siber, G, 165, 166
Sielaff, GW, 1
Simon, BC, 511
Sinclair, D, 109
Singer, I, 61
Singh, GS, 13
Sitar, DS, 163
Sivertson, KT, 165
Slater, H, 471
Sloan, E, 370
Sloan, TB, 1
Slovis, CM, 13
Smith, D, 439
Smith, EO, 33
Smith, MS, 423
Smith, R, 435
Sornsin, SM, 29
Sowers, MB, 49
Spadafora, MP, 76
Spaite, DW, 435
Spoerke, DG, 495
Spyker, DA, 117
Stair, T, 563
Stair, TO, 85, 563
Sternbach, G, 77, 344, 417
Stewart, R, 564
Stine, RJ, 167
Stults, K, 86
Suen, JY, 85
Sutton, FM, 164

Taliaferro, EH, 185
Tenenbein, M, 163
Thacker, JG, 475
Thisted, RA, 203
Timerding, B, 77
Tokarski, GF, 121
Towler, MA, 475
Trott, A, 85, 162
Turnbull, TL, 370, 371

Vandenberg, SA, 495

Waeckerle, JF, 80
Wainscott, M, 439
Walker, JS, 37
Walker, LA III, 165
Walls, RM, 423
Wason, S, 353
Weisberg, MC, 163
Wetmore, SJ, 85
Whye, DW Jr, 301

Wilkinson, JA, 273
Wolfe, R, 411
Wolfert, AI, 277
Wolfson, AB, 61
Woodward, A, 179
Wright, LA, 162
Wright, SW, 549, 564
Yagnik, P, 391
Young, DH, 164
Young, GP, 321
Young, MJ, 121
Zaiser, DK, 387
Zalut, T, 370, 434
Zanga, JR, 353
Zdrahal, F, 162
Zimmerman, L, 85
Zink, BJ, 261
Zull, DN, 295
Zumpft, CW, 443

Keyword Index
Volume 6, 1988

abdomen, surgical, acute, 411
abdominal pain, 29
abdominal trauma, blunt, 29
academic library, 551
academic physicians, tenure considerations, 425
acetaminophen overdose, subacute, 37
acetaminophen, incremental dosing, 37
acute myocardial infarction, 405
administration, clinical, emergency psychiatry, 462
aeromedical evacuation, history of, 499
aeromedical, 49
aeromedicine, 147
aerospace medicine, 113
air transport, 499
air travel, 113
airplane ambulance, 499
airplane, 41
airway management, 547
airway, emergency, 309
algorithm, tricyclic antidepressant, 121
ambulance personnel, 9
ambulance, 41
aminophylline loading dose, obese asthmatic, 370
ammonium nitrate, 289
anatomic factors in endotracheal intubation, 209
angina, unstable, 363
anion gap, elevated, metabolic acidosis, 295
antibiotics, 391
antineoplastic, ingestion, 495
arrhythmias, 185
asthmatic patient, obese, 370
atrial fibrillation, 185
atrial flutter, 55
automaticity, 55

bacteremia, 33
barotrauma, 113
battering syndrome, 521
Beck's triad, 417
bites, mammalian, 325
blindness, transient, 373
blood component therapy, 151
blood gases, 471
blood storage, 151
blunt abdominal trauma, 29
blunt chest trauma, 373
Boerhaave's syndrome, 13
Boyle's law, 113
bronchoscopy, 471
burns, 471
burns, emergency treatment, 517

calcium antagonists, 189
calcium chloride, 193
carbon monoxide, 227
cardiac arrest, 189, 321
cardiac arrest, ED visitor, 76
cardiac tamponade, 417
cardiopulmonary resuscitation, complications, 177
cardioversion, 185
carotid artery trauma, blunt, 281
carotid thrombosis, 281
cat bites, 325
catheter embolism, 17
catheterization, central venous, 370
central venous access, 133
central venous catheters, 17, 370
cerebral blood flow, 1
cervical spine films, 548
cervical spine injury, 198
cervical spine radiographs, 203
cervical spine trauma, 203
cervical spine, fracture, 179
cervical trauma, blunt, 281
chest pain follow-up, 363
chlorambucil, overdose, 495
clenched-fist injury, 325
clinic, medical, 363
clinical ethics, 147
clonidine, 564
clonidine, overdose, 125
closed-chest massage, 177
cold packs, ingestion of, 289
compliance, follow-up, 421
complications, 17
complications, tricyclic antidepressant overdose, 121
computed tomography, cranial, 371
coniotomy, 309
contact lens, 247
cor pulmonale, 301
corneal ulcer, 247
cranial computed tomography, 371
cricothyroidotomy, 309
cricothyrotomy, 49, 309
crisis intervention, 521
curriculum for medical Spanish, 439
cutting edge, reverse, 475

CVP catheters, 137
CVP monitoring, 133
cyanide poisoning, 401

defibrillation, EMT-D prehospital, 86
defibrillation, an EMT manual, 86
depression, assessment, 99
dermatology, 261
diabetic ketoacidosis, 511
diagnostic, peritoneal lavage, 29
dialysis, 61
diarrhea, 483
diazepam, 491
dichloromethane, 227
discharges, irregular, 369
disseminated intravascular coagulation, 277
diuresis, 341
dog bites, 325
domestic violence, 521
dress, style, and respect, 433
dumping, patient, 147, 429
dyskinesia, 491
dysrhythmias, 193
dystonic reaction, 491

ECG, 55, 129, 405
economic transfers, 147
efficacy study, 197
Eikenella corrodens, 325
electrocardiogram, 55, 129
electrocardiogram, pulmonary embolism, 301
emergency medical service, 9
emergency medical services, 333
emergency medical technicians, 9
emergency treatment, burns, 517
empyema, toxic shock syndrome, 285
encephalopathy, 397
end-stage renal disease, 61
endocarditis, 129
endocrine drugs, suicidal agents, 527
endotracheal intubation, 1, 209, 505
ENT emergencies, North America, 563
enteric fistula, 29
epistaxis, 387
esophagus, 13
ethicists, physician, 147
ethylene glycol poisoning without crystalluria, 295
extrapyramidal syndrome, 491
eye, ear, nose, and throat, 85

facial fractures, 109
faculty development, 551
fecal leukocytes, 483
Fentanyl, 548
fever, 391
filters, 269
fistula, enteric, 29
fluid therapy, 269
flutter, 55
focal neurologic deficit, 281
follow-up noncompliance, 421
foreign body ingestion, 397
fracture, cervical spine, 179

gastrointestinal decontamination, 117
greenstick fracture, 381

halogenated hydrocarbons, 227
head injured patients, 547
head injury, 198
head trauma, 198, 203
health maintenance organizations, 333
heart block, 129
heart, radiography, 197
helicopter, 41
helicopters, 499
hemodialysis, 61, 277
hemoglobinopathies, 213
hemorrhagic shock, 377
hemostasis, 377
hemotympanum, 387
heparin, 227
hepatitis B infection, prophylaxis, 89
hepatitis B, 9
HMO and prehospital care, 345
holiday heart, 185
human bites, 325
hydrocarbon toxicity, 227
hyperbaric oxygen, 227
hyperkalemia, 511
hypertension, 125
hypertensive crisis, 23
hyperventilation, 1

indigent patient management, 429
infant, 41
infection control, prehospital, 85
inflight medical care, 341
infusions, 269
inhalation mortality, 471
injury prediction, 203
insulin poisoning, 527
insurance screening, 141
intracranial pressure, 1
intraosseous infusions, 143, 433
intravenous tubing, flow rate, 269
intubation, 49
intubation, endotracheal, 209
isopropyl alcohol, 342
isotretinoin poisoning, 273

jugular vein, external, 133

ketoacidosis, isopropyl alcohol, 342

laryngoscopy, 209
laryngostomy, 309
laryngotomy, 309

lead toxicity, 397
legislation, interhospital dumping, 443
Leukeran, 495
leukocyte counts, 33
library, academic, 551
lidocaine, 1
lung, 197

mammalian bites, 325
median nerve lesion, 381
medical clinic, 363
meningitis with drug intoxication, 453
meningitis, 33
metabolic acidosis, 295
methylene chloride, 227
metocurine, 548
midazolam, 548
myelography, 391
myocardial infarction, 363
myocardial infarction, pseudo, potassium, 511
myocardial infarction, thrombolytic therapy, 423
myocardial ischemia, 363

nasotracheal, 49
needle cricothyroidotomy, 309
needles, conventional, 475
needles, cutting edge, 475
needlestick, 9
nerve entrapment, 381
nerve graft, 381
neurologic deficit, focal, 281
neurotoxicology, 227
nifedipine, 125, 565
nifedipine, hypertensive emergencies, 548, 549
911, emergency physician, 143
nitrates, 289
nitrites, 289
noncompliance, follow-up, 421

obese, asthmatic, aminophylline, 370
obstetric, 41
osteomyelitis, purulent, 285
otolaryngology, 85
overdose, isotretinoin, 273
overdose, tricyclic antidepressant, 121

pain management, emergency, 564
pancreatic pseudocyst, 29
pancuronium, 548
paramedics, endotracheal intubation, 505
paranasal sinuses, 113
paraparesis, 391
Pasteurella multocida, 325
patient dumping, 147
pediatric emergencies, handbook, 353
pediatric emergency medicine, 541, 545
penetration force, needles, 475
perinatal, 41
peritoneal lavage, diagnostic, 29
pharyngeal tear, 487
poem, 539
poisoning treatment, 401
poisoning, 527
poisoning, prevention, diagnosis, treatment, 563
policy, health, 147
potassium, 511
preclinical phase, 117
prehospital care and HMO, 345
prehospital care, 333, 505
prehospital nasotracheal intubation, 49
prematurity, 41
procainamide, 185
pseudomyocardial infarction, 511
psychiatric emergency, recognition, management, 463
psychiatry, emergency, 462
public hospitals, patient transfers to, 447
pulmonary embolism, electrocardiogram, 301

quality assurance, 249
Q wave infarction, 405

radiography, 197
rapid fluid infusions, 269
reentry, 55
renal and urologic emergencies, 461
renal artery occlusion, acute, 23
renal failure, chronic, 61
renal hypertension, 23
resolution phase, poisoned patient, 117
resuscitation, 71
retinoids, 273
reverse cutting needles, 543
shock, 71
seizure, new onset, 371
sickle-cell anemia, 213
sickle-cell crisis, 213
sickle-cell disease, 213
sinusitis, 113
skiing injury, pharyngeal tear, 487
sodium bicarbonate, 321
sodium nitrite, 401
sodium thiopental, 1, 548
sodium thiosulfate, 401
Spanish curriculum, 427, 439
spinal epidural abscess, 391
spine pain, 391
spontaneous rupture, 13
ST segment infarction, 405
succinylcholine, 1
suicidal agents, endocrine drugs, 527
suicidal patients, cold pack ingestion, 289
suicide potential, assessment, 99
sulfonylurea poisoning, 527
superior vena cava compression, 373
supraventricular tachycardia, 185
surgical cricothyroidotomy, 309
suture materials, 543

Taser, 343, 344
telephone follow-up, 249
telephone triage, 333
tenure, academics, 425
thoracic fracture, 177
thoracotomy, 75
thorax, 197
thrombolytic therapy, 423
thyroid hormone poisoning, 527
time allocation, three academic specialties, 435
toxic phase, poisoned patient, 117
toxic shock syndrome, 285
toxicodynamics, 117
toxicology, 227
toxicology, handbook of, 353
toxicology, isotretinoin, 273
transfer of patients to public hospitals, 447
transfer, 41
transfusion equipment, 151
transfusion, 151
transfusion, complications, 151
trauma assessment, 203
trauma, 179, 377
trauma, utilization, level one, 369
traumatic asphyxia, 373
triage, telephone, 333
tricyclic antidepressant overdose, 121
tubing, large bore, 269
T wave infarction, 405

unstable angina, 363
uremia, 61
utilization, level one trauma center, 369

vascular perforations, 137
vaso-occlusive crisis, 213
venous blood gases, 401
venous compression, 373
ventricular fibrillation, 189
verapamil intoxication, 193
verapamil, 189
vertebral fracture, 177

white blood cell counts, 33
Wright's stain, 483